



FCC ID:2AO6R-IPN-E2-CR

Product Name:	Easyclip Qi2
Product Model No.:	IPN-E2-CR/MPP IPN-E2-S-COMBO, IPN-E2-S, IPN-E2-S/EMB, IPN-E2-S/FLT, IPN-E2-S/OTP, IPN-E2-CR, IPN-E3-CR, IPN-E2-USB-C
Model Difference:	IPN-E2-CR/MPP is tested model, other models are derivative models . The models are identical in circuit, only different on the model names, So the test data of IPN-E2-CR/MPP can represent the remaining models.
Transmitting mode:	Keep the EUT in continuously wireless charging mode
Power supply:	Input: 12 - 24 V—1 - 4 A, 96 W Max Wireless Output: 5 W, 7.5 W, 10 W, 15 W USB Type-C Output: 5 V—3 A, 9 V—3 A, 12 V—3 A, 15 V—3 A, 20 V—2.25 A
AC/DC ADAPTER	
Model Name	MX65D1-2402500
Rated Power Supply	Input: AC 100 - 240 V, 50 / 60 Hz, 2 A Output: 24 V—2.5 A

Test Modes:

Mode 1	AC Adapter+Wireless charging mode (Qi Battery Status: $\geq 98\%$)
Mode 2	AC Adapter+Wireless charging mode (Qi Battery Status:50%)
Mode 3	AC Adapter+Wireless charging mode (Qi protocol: Battery Status: $\leq 1\%$)
Mode 4	AC Adapter+Wireless charging mode (MPP protocol: 15W)

Note:

1. All modes and coil were tested, only the worst-case was recorded in the report. Mode 3 is the worst mode.
2. The Qi protocol was tested using iPhone 12, while the MPP protocol was tested using wireless charging load
3. The test Settings photo shows only the worst side of Mode 3

Item	Equipment	Mfr/Brand	Model/Type No.	Wireless charging power parameters	Note
E-1	Wireless charging load	YBZ	EESON	5 W/ 7.5 W/ 10 W/ 15W	AE
E-2	Mobile phone	Apple Inc.	iPhone 12	N/A	AE

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1 Measuring Standard

KDB 680106 D01 Wireless Power Transfer v04

2 Requirements

Requirements of section 3 of KDB 680106 D01	Yes/ No	Description
Mobile Device and Portable Device Configurations	Yes	Mobile Device
Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz	Yes	The device operate in the frequency range Qi protocol: 111-205KHz MPP protocol: 359KHz
RF Exposure compliance may be ensured only for a minimum conditions at smaller distances can still be considered unlikely.separation distance that is greater than 20 cm, while use	Yes	The EUT H-field and E-field strengths at 20 cm surrounding the device.

Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

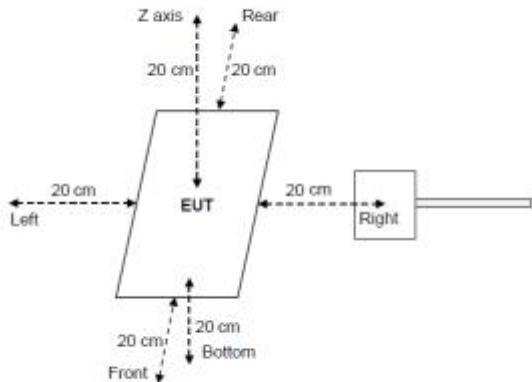
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
*=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).



3 Test Setup

For mobile exposure conditions:



4 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

Remark: The EUT's test position A, B, C, D, E and F is valid for the E and H field measurements.

5 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	H-field	$\pm 0.7 \text{ dB}$
2	E-field	$\pm 1.06 \text{ dB}$

Decision Rule

Uncertainty is not included
 Uncertainty is included



6 Test Instruments list

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Exposure Level Tester	Narda	ELT-400	N-0231	Sep. 29, 2024	Sep. 28, 2025
Magnetic field probe 100cm2	Narda	ELT probe 100cm2	M0675	Sep. 29, 2024	Sep. 28, 2025
Isotropic Electric field probe	Narda	EP-601	611WX70332	Sep. 29, 2024	Sep. 28, 2025



Test Result

H-Field Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Unit	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	50%Limits (A/m)	Limits (A/m)	test result
0.111-0.205	A (uT)	0.21	0.15	0.64	0.55	0.85	0.80	0.815	1.63	PASS
	(A/m)	0.17	0.12	0.51	0.44	0.68	0.64			
0.359	A (uT)	0.23	0.20	0.70	0.58	0.81	0.83	0.815	1.63	PASS
	(A/m)	0.18	0.16	0.56	0.46	0.65	0.66			

Note: Calculation: A/m=uT/1.25



7 Test Set-up Photo

